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 Met Glu Val Arg  
 1

ccc aaa gaa agc tgg aac cat gct gac ttt gta cac tgt gag gac aca 642  
 Pro Lys Glu Ser Trp Asn His Ala Asp Phe Val His Cys Glu Asp Thr  
 5 10 15 20

gag tct gtt cct gga aag ccc agt gtc aac gca gat gag gaa gtc gga 690  
 Glu Ser Val Pro Gly Lys Pro Ser Val Asn Ala Asp Glu Val Gly  
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ggt ccc caa atc tgc cgt gta tgt ggg gac aag gcc act ggc tat cac 738  
 Gly Pro Gln Ile Cys Arg Val Cys Gly Asp Lys Ala Thr Gly Tyr His  
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ttc aat gtc atg aca tgt gaa gga tgc aag ggc ttt ttc agg agg gcc 786  
 Phe Asn Val Met Thr Cys Glu Gly Cys Lys Gly Phe Phe Arg Arg Ala  
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atg aaa cgc aac gcc cgg ctg agg tgc ccc ttc cgg aag ggc gcc tgc 834  
 Met Lys Arg Asn Ala Arg Leu Arg Cys Pro Phe Arg Lys Gly Ala Cys  
 70 75 80

gag atc acc cgg aag acc cgg cga cag tgc cag gcc tgc cgc ctg cgc 882  
 Glu Ile Thr Arg Lys Thr Arg Arg Gln Cys Gln Ala Cys Arg Leu Arg  
 85 90 95 100

aag tgc ctg gag agc ggc atg aag aag gag atg atc atg tcc gac gag 930  
 Lys Cys Leu Glu Ser Gly Met Lys Lys Glu Met Ile Met Ser Asp Glu  
 105 110 115

gcc gtg gag gag cgg gcc ttg atc aag cgg aag aaa agt gaa cgg 978  
 Ala Val Glu Glu Arg Arg Ala Leu Ile Lys Arg Lys Ser Glu Arg  
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aca ggg act cag cca ctg gga gtg cag ggg ctg aca gag gag cag cgg 1026  
 Thr Gly Thr Gln Pro Leu Gly Val Gln Gly Leu Thr Glu Glu Gln Arg  
 135 140 145

atg atg atc agg gag ctg atg gac gct cag atg aaa acc ttt gac act 1074  
 Met Met Ile Arg Glu Leu Met Asp Ala Gln Met Lys Thr Phe Asp Thr  
 150 155 160

acc ttc tcc cat ttc aag aat ttc cgg ctg cca ggg gtg ctt agc agt 1122  
 Thr Phe Ser His Phe Lys Asn Phe Arg Leu Pro Gly Val Leu Ser Ser  
 165 170 175 180

FIG. 1A-1

ggc tgc gag ttg cca gag tct ctg cag gcc cca tcg agg gaa gaa gct		1170
Gly Cys Glu Leu Pro Glu Ser Leu Gln Ala Pro Ser Arg Glu Glu Ala		
185	190	195
gcc aag tgg agc cag gtc cgg aaa gat ctg tgc tct ttg aag gtc tct		1218
Ala Lys Trp Ser Gln Val Arg Lys Asp Leu Cys Ser Leu Lys Val Ser		
200	205	210
ctg cag ctg cgg ggg gag gat ggc agt gtc tgg aac tac aaa ccc cca		1266
Leu Gln Leu Arg Gly Glu Asp Gly Ser Val Trp Asn Tyr Lys Pro Pro		
215	220	225
gcc gac agt ggc ggg aaa gag atc ttc tcc ctg ccc cac atg gct		1314
Ala Asp Ser Gly Gly Lys Glu Ile Phe Ser Leu Leu Pro His Met Ala		
230	235	240
gac atg tca acc tac atg ttc aaa ggc atc atc agc ttt gcc aaa gtc		1362
Asp Met Ser Thr Tyr Met Phe Lys Gly Ile Ile Ser Phe Ala Lys Val		
245	250	255
atc tcc tac ttc agg gac ttg ccc atc gag gac cag atc tcc ctg ctg		1410
Ile Ser Tyr Phe Arg Asp Leu Pro Ile Glu Asp Gln Ile Ser Leu Leu		
265	270	275
aag ggg gcc gct ttc gag ctg tgt caa ctg aga ttc aac aca g tg ttc		1458
Lys Gly Ala Ala Phe Glu Leu Cys Gln Leu Arg Phe Asn Thr Val Phe		
280	285	290
aac gcg gag act gga acc tgg gag tgt ggc cgg ctg tcc tac tgc ttg		1506
Asn Ala Glu Thr Gly Thr Trp Glu Cys Gl y Arg Leu Ser Tyr Cys Leu		
295	300	305
gaa gac act gca ggt ggc ttc cag caa ctt cta ctg gag ccc atg ctg		1554
Glu Asp Thr Ala Gly Gly Phe Gln Gln Leu Leu Leu Glu Pro Met Leu		
310	315	320
aaa ttc cac tac atg ctg aag aag ctg cag ctg cat gag gag gag tat		1602
Lys Phe His Tyr Met Leu Lys Leu Gln Leu His Glu Glu Glu Tyr		
325	330	335
340		
gtg ctg atg cag gcc atc tcc ctc ttc tcc cca gac cgc cca ggt gtg		1650
Val Leu Met Gln Ala Ile Ser Leu Phe Ser Pro Asp Arg Pro Gly Val		
345	350	355
ctg cag cac cgc gtg gtg gac cag ctg cag gag caa ttc gcc att act		1698
Leu Gln His Arg Val Val Asp Gln Leu Gln Glu Gln Phe Ala Ile Thr		
360	365	370
ctg aag tcc tac att gaa tgc aat cgg ccc cag cct gct cat agg ttc		1746
Leu Lys Ser Tyr Ile Glu Cys Asn Arg Pro Gln Pro Ala His Arg Phe		
375	380	385
ttg ttc ctg aag atc atg gct atg ctc acc gag ctc cgc agc atc aat		1794
Leu Phe Leu Lys Ile Met Ala Met Leu Thr Glu Leu Arg Ser Ile Asn		
390	395	400

FIG. 1A-2

gct cag cac acc cag cg<sub>g</sub> ctg ctg cgc atc cag gac ata cac ccc ttt 1842  
Ala Gln His Thr Gln Arg Leu Leu Arg Ile Gln Asp Ile His Pro Phe  
405 410 415 420

gct acg ccc ctc atg cag gag ttg ttc ggt atc aca ggt agc tga 1887  
Ala Thr Pro Leu Met Gln Glu Leu Phe Gly Ile Thr Gly Ser  
425 430

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actccccggc caagacagat ggacactgcc aagagccgac aatgccctgc tggcctgtct 2007  
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c 2068

FIG. 1A-3

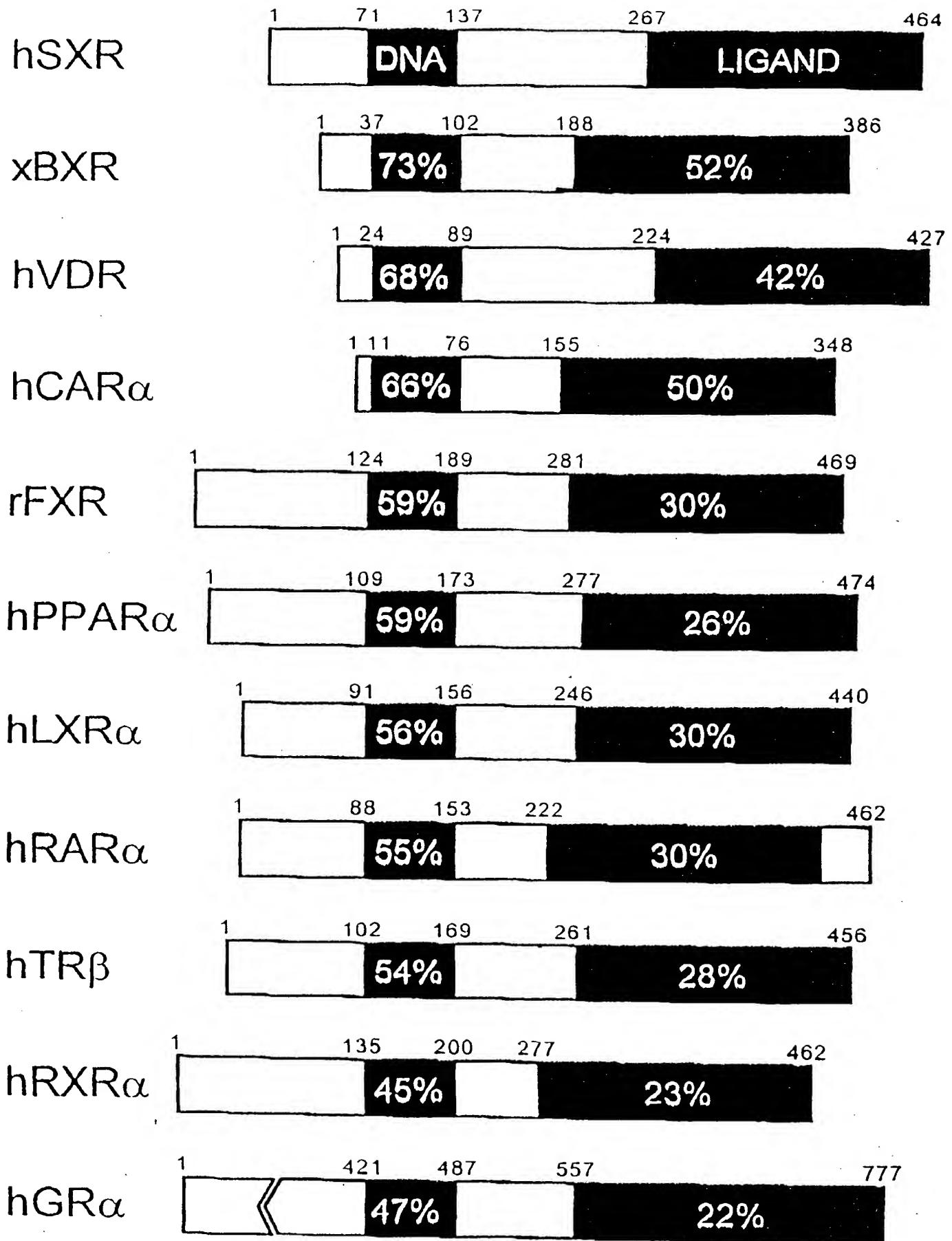
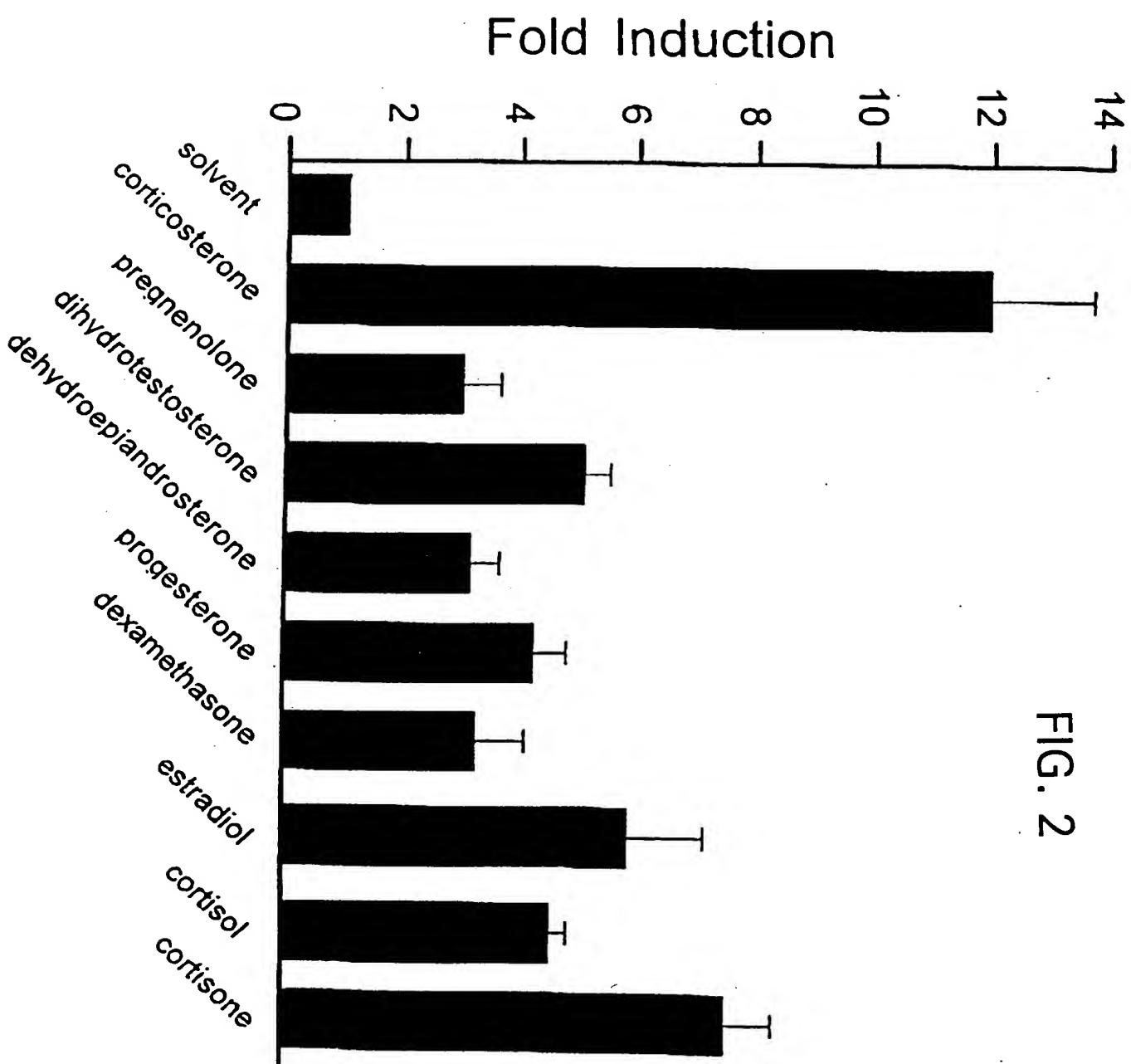


FIG. 1B

FIG. 2



### Fold Induction

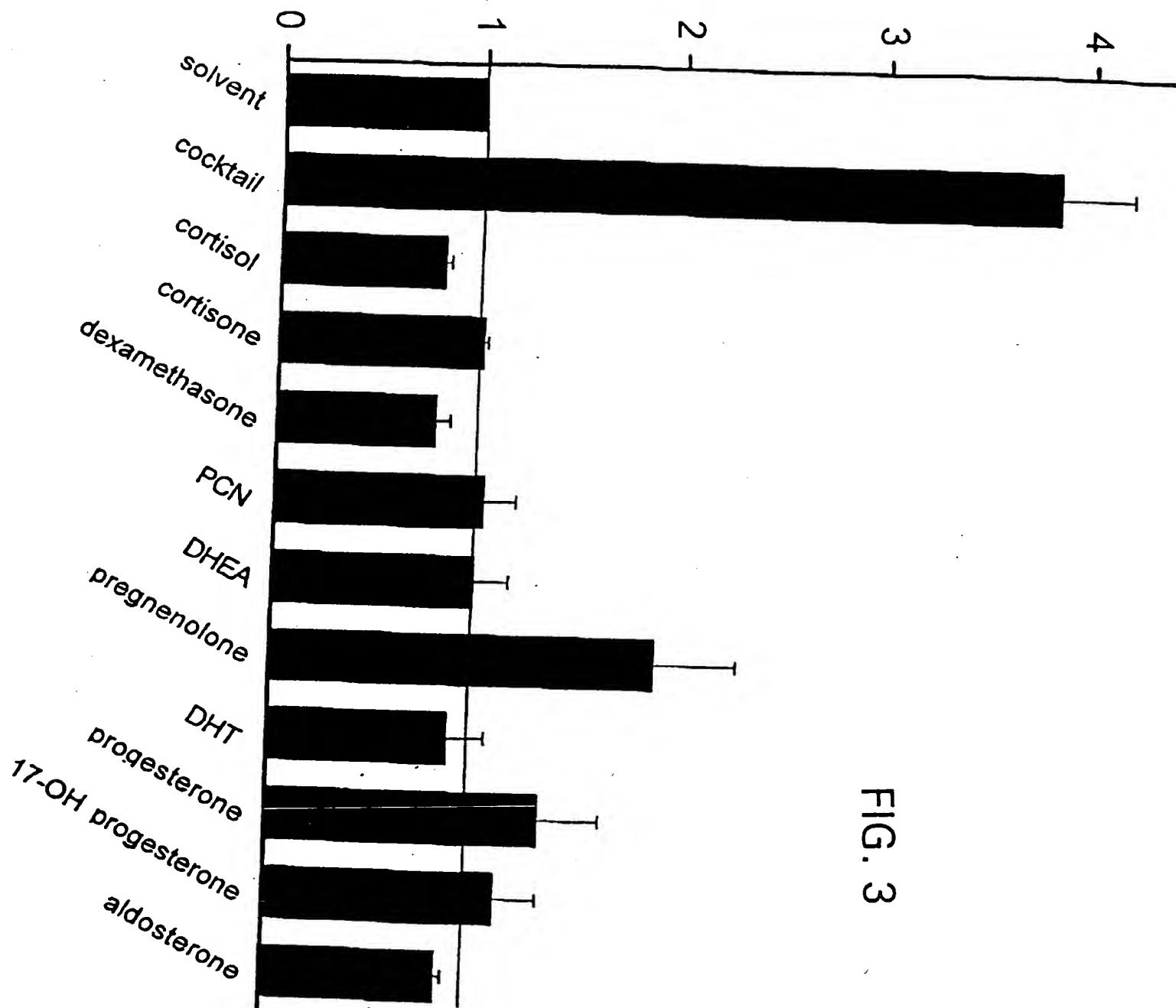
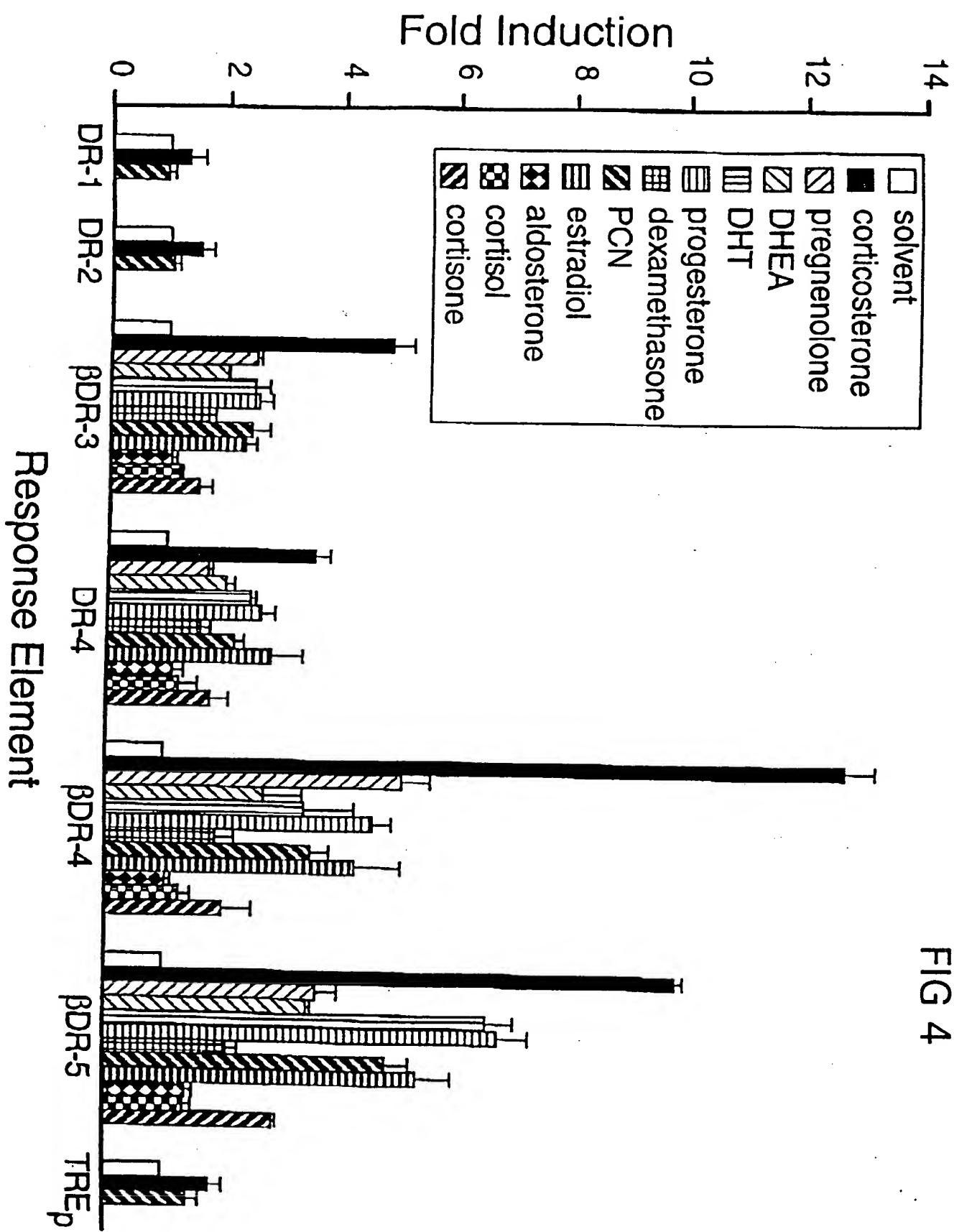


FIG 4



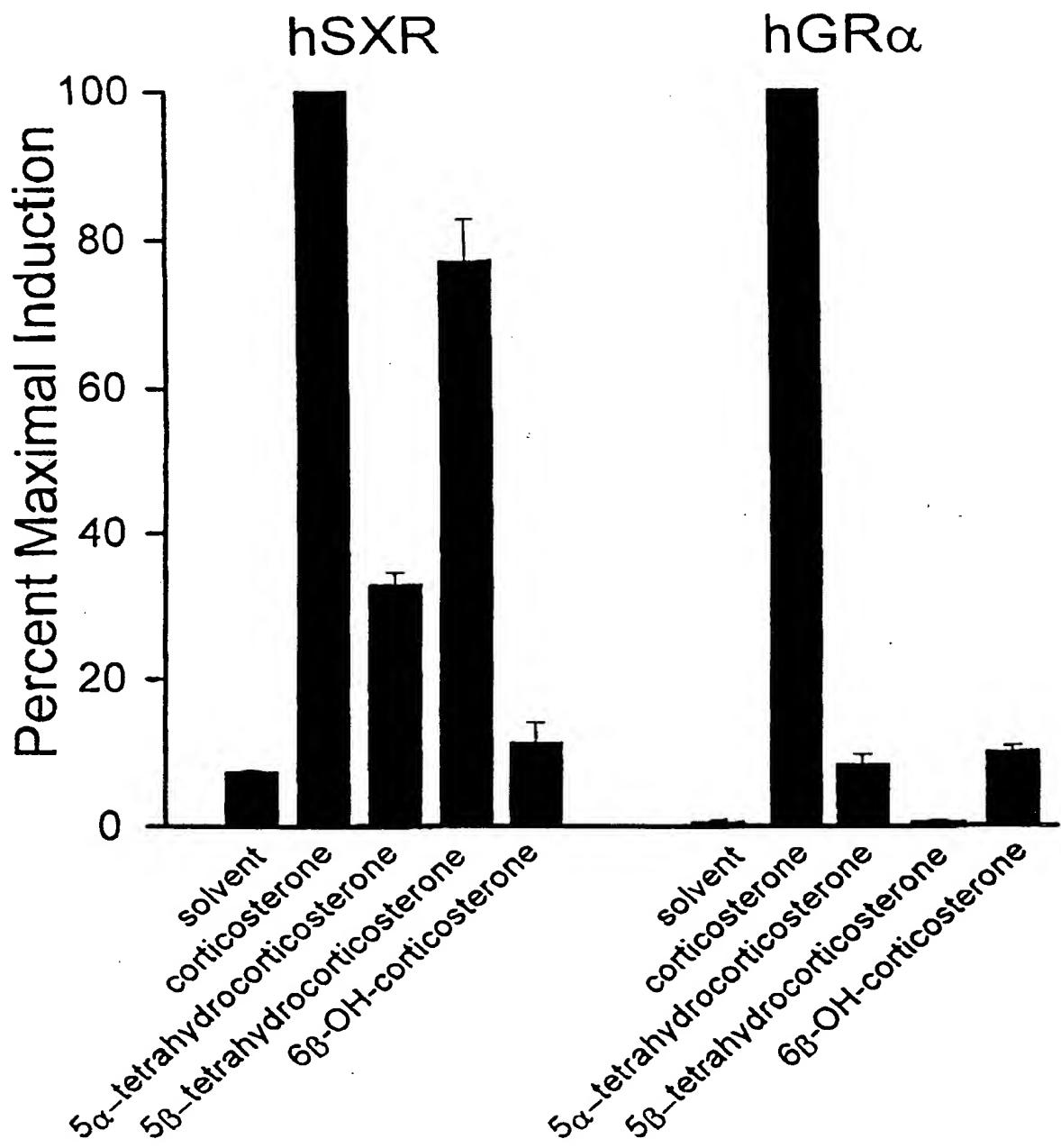


FIG 5

**DR-3**

rCYP3A1 tagac AGTTCA tga AGTTCA tctac  
rCYP3A2 taagc AGTTCA taa AGTTCA tctac  
rUGT1A6 actgt AGTTCA taa AGTTCA catgg

**DR-4**

rbCYP2C1 caatc AGTTCA acag GGTTCA ccaat  
rP450R cac AGGTGA gctg AGGCCA gcagc AGGTCG aaa

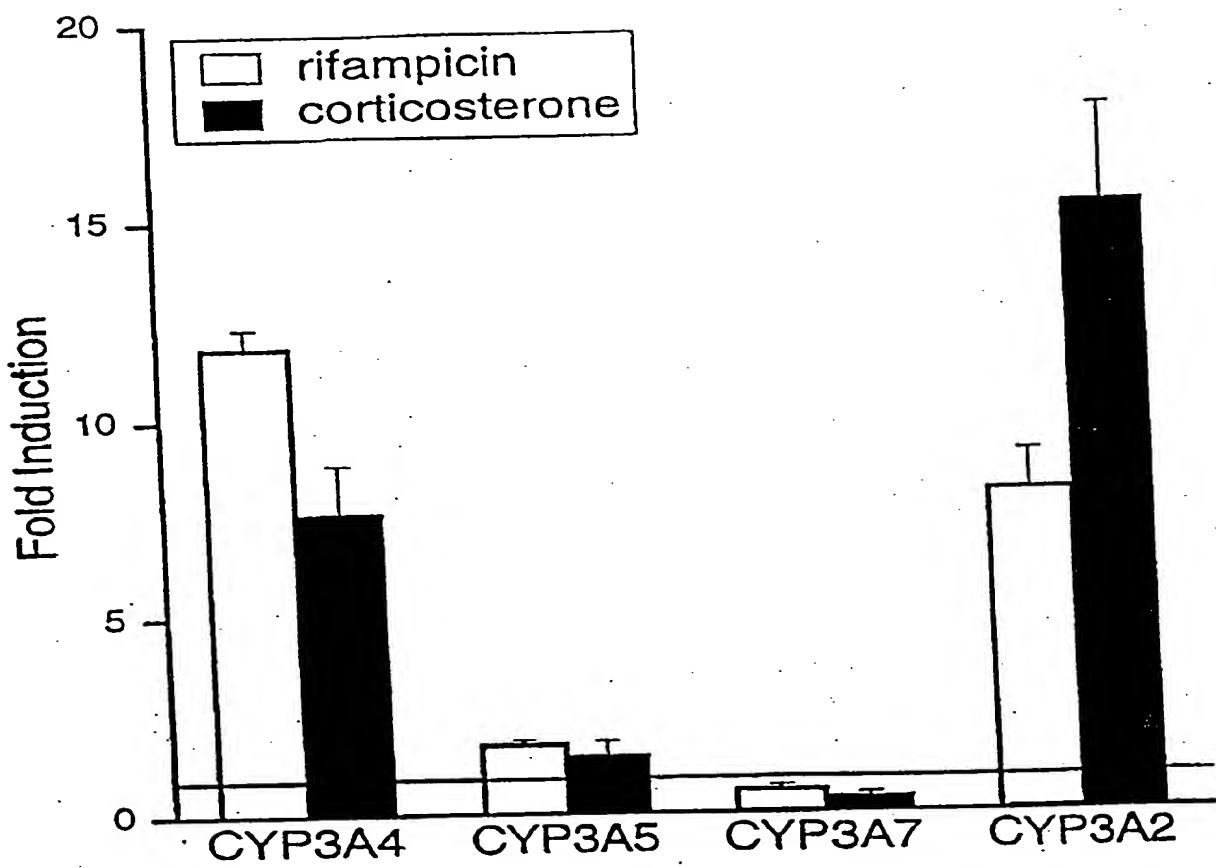
**DR-5**

rCYP2A1 gtgca GGTTCA actgg AGGTCA acatg  
rCYP2A2 gtgct GGTTCA actgg AGGTCA gtatg  
rCYP2C6 agtct AGTTCA gtggg GGTTCA gtctt  
rCYP2E1 gagat GGTTCA aggaa GGGTCA ttaac

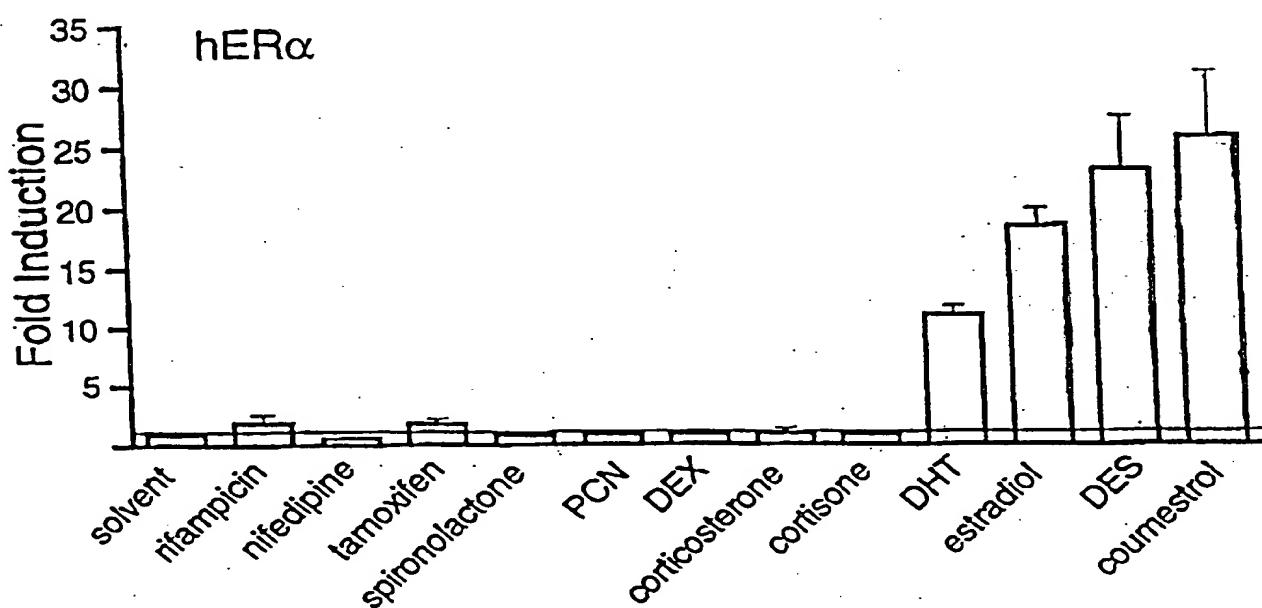
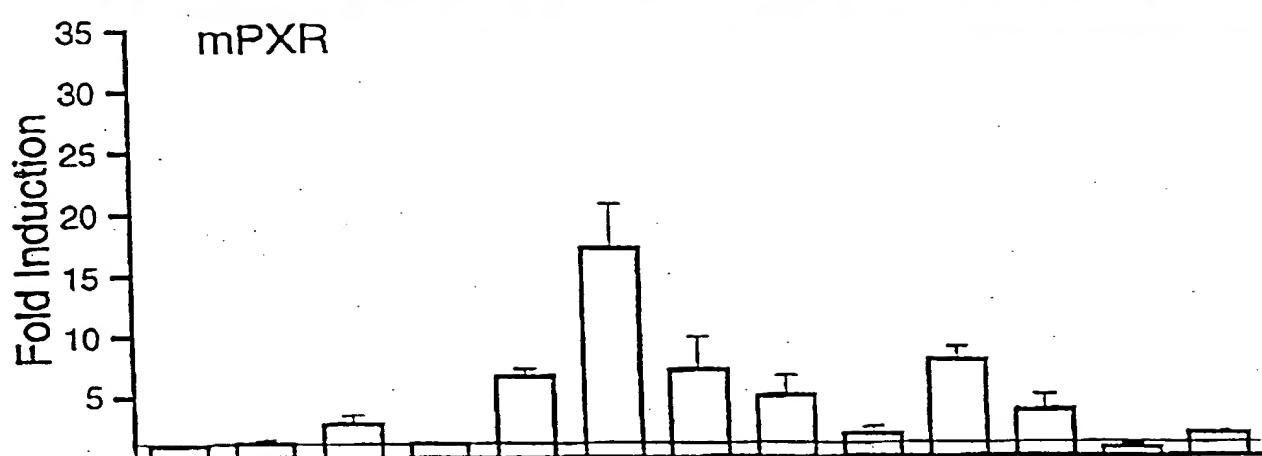
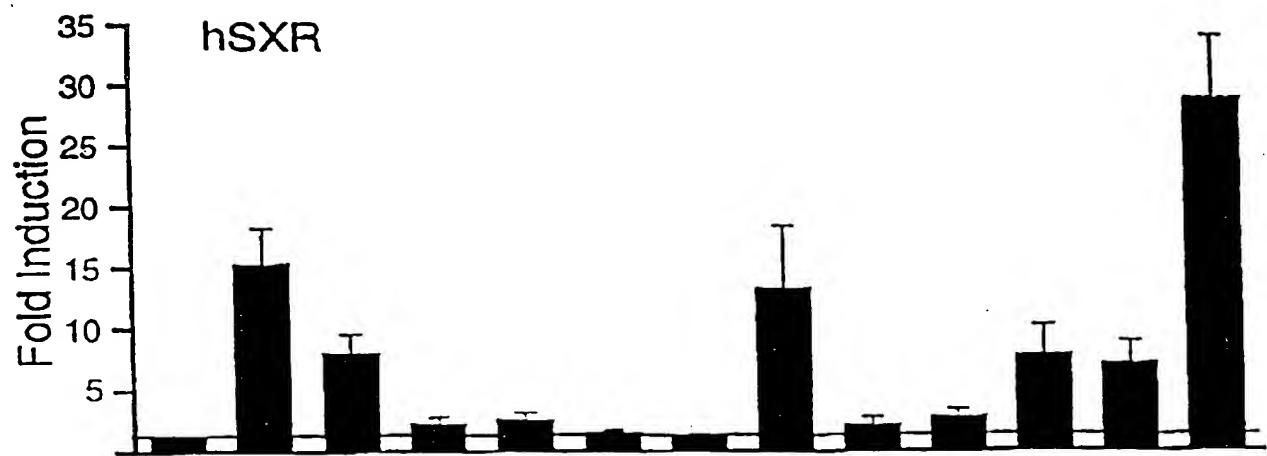
**FIG. 6A**

CYP3A4 tagaata TGAACT caaagg AGGTCA gtgagtgg  
CYP3A5 tagaata TGAACT caaagg AGGTAA gcaaagggg  
CYP3A7 tagaata TTAACT caatgg AGGC.A gtgagtgg

**FIG. 6B**



**FIG. 6C**



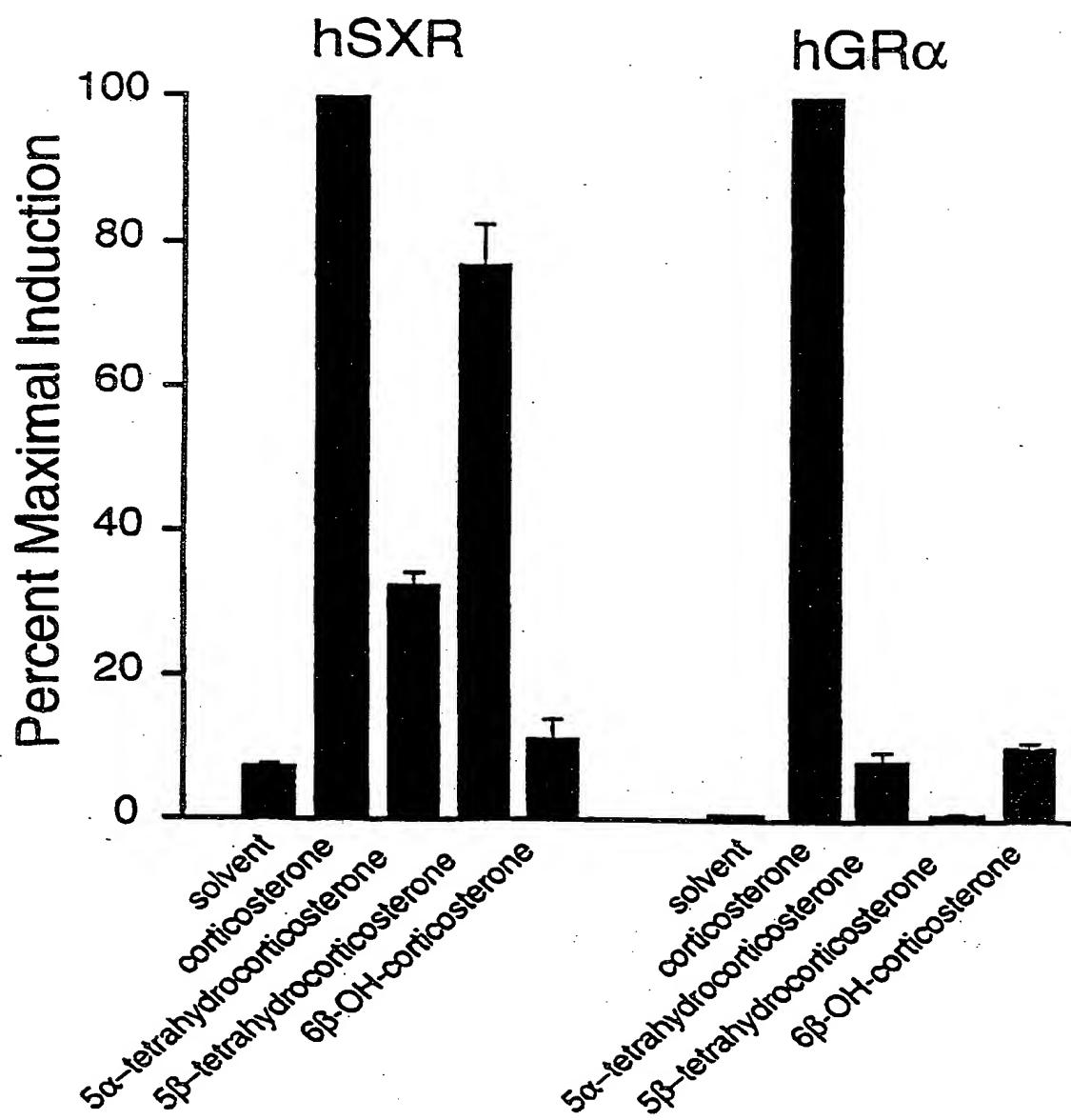
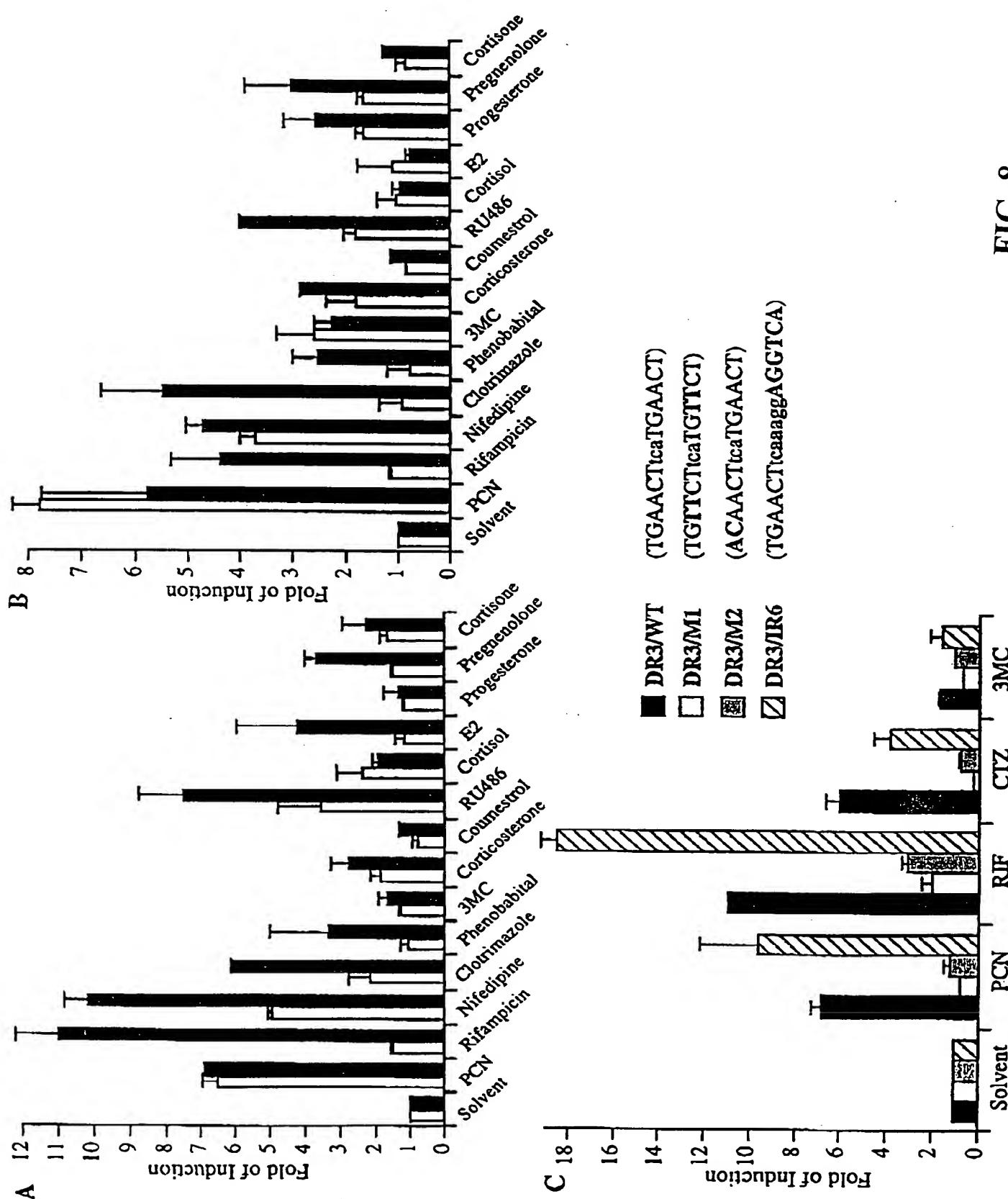
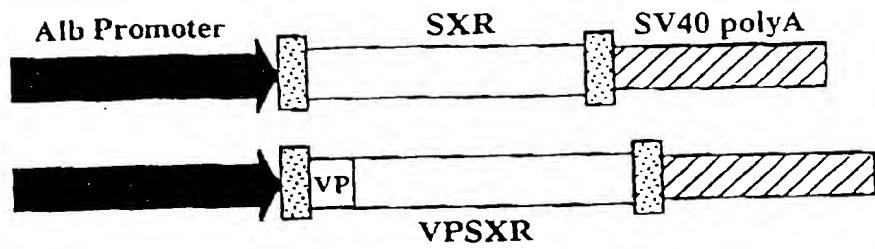


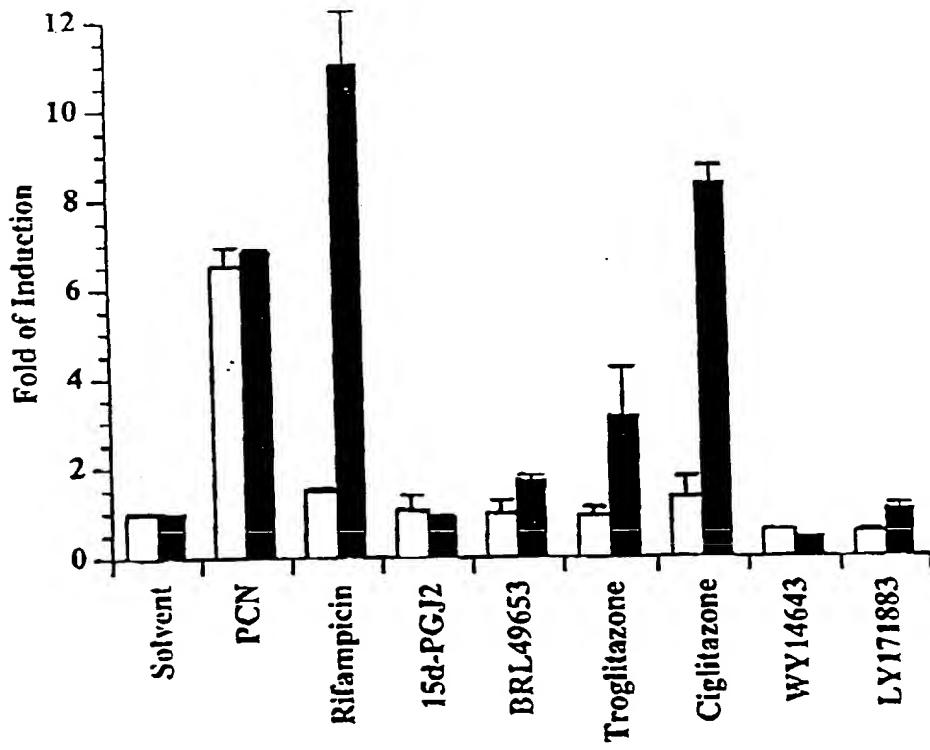
Figure 7D

FIG. 8

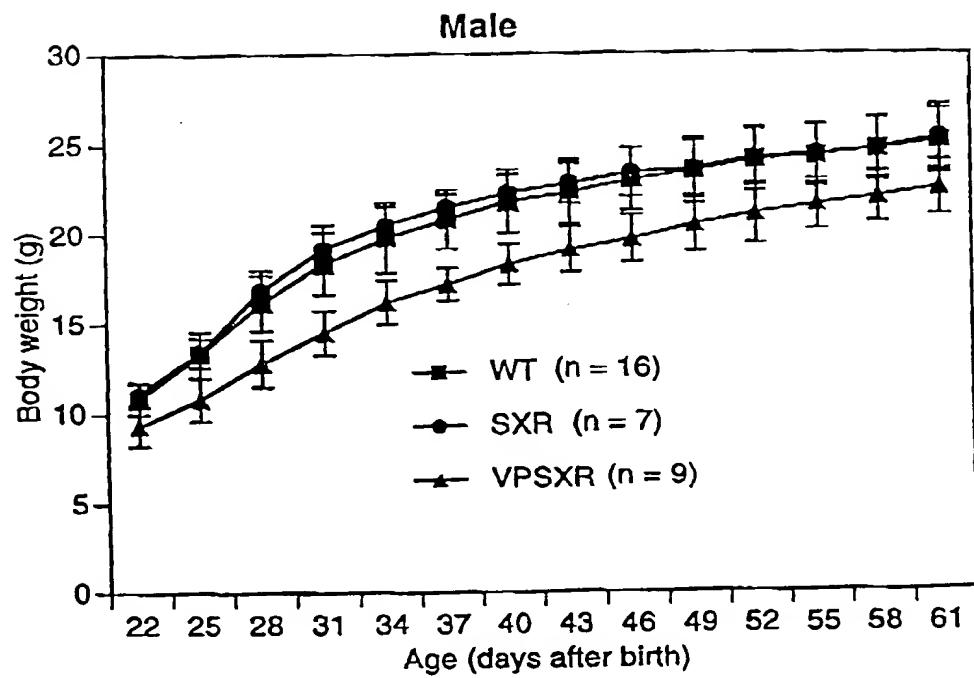




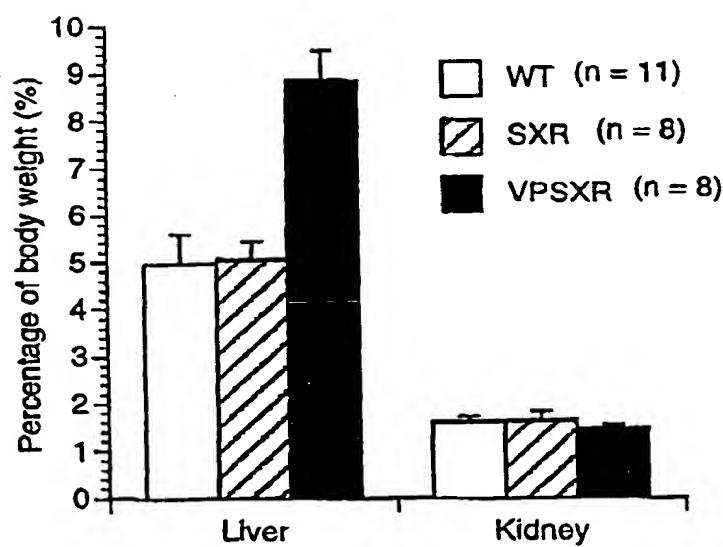
**FIG. 9**



**FIG. 10**



**FIG. 11**



**FIG. 12**

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